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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

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Commissioner of Patents and Trademarks

Dews Tehman

Melvinia Gary



United States Patent [19]

Leyden et al.

[11] Patent Number: [45] Date of Patent:

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[54] RETRACTABLE SENSOR FOR AN ALARM SYSTEM

[56]

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[21] Appl. No.: 258,663 [22] Filed: Jun. 10, 1994 **G08B 13/14** **340/568**; 340/665; 340/548; Int. Cl.6 [52] U.S. CL. 340/571

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[57] ABSTRACT

A retractable sensor assembly for use with an alarm system to prevent theft of valuable products while eliminating the problem of entangled and unsightly sensor cords is disclosed. The retractable sensor allows the user to grasp the product and pull it to a comfortable position. The invention consists of a housing, a retraction means contained in the housing, a sensor having two states, 1) secured when attached to the product and 2) unsecured when detached from the results of sufficiently the results of the product and 2) unsecured when detached from the product, a multiconductor cable having a first end connected to the sensor, cooperating with the retraction means and a second end extending out of the housing, where the retraction means urges the sensor to the housing, yet allows the sensor to be pulled from the housing when an external force is exerted on the sensor, while maintaining a continuous electrical path from the first, sensor end of the cable to the second end of the cable.

11 Claims, 3 Drawing Sheets

